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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/614,769	01	7/12/2000	Shinji Hamada	P19757	2412	
7055	7590	09/10/2002				
		ERNSTEIN, P.	EXAMI	EXAMINER		
1941 ROLAI RESTON, V		KE PLACE	MAPLES, JOHN S			
				ART UNIT	PAPER NUMBER	
				1745	10	
				DATE MAILED: 09/10/2002	10	

Please find below and/or attached an Office communication concerning this application or proceeding.

•					4 (1)
·	•	Application	on No.	Applicant(s)	
è		09/614,76	69	HAMADA ET AL.	•
	Office Action Summary	Examiner	•	Art Unit	
		John S. N		1745	
Period f	The MAILING DATE of this communication ap or Reply	ppears on the	cover sheet with the o	correspondence addre	ISS
THE - External control	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a report of the provision of t	.136(a). In no even ply within the stat d will apply and w ate, cause the app	ent, however, may a reply be til utory minimum of thirty (30) day ill expire SIX (6) MONTHS from lication to become ABANDONE	mely filed  ys will be considered timely.  the mailing date of this comments  (35 U.S.C. § 133).	nunication.
1)⊠	Responsive to communication(s) filed on 14	June 2002			
2a)⊠	This action is <b>FINAL</b> . 2b) ☐ T	his action is	non-final.		
3)⊟ Disposit	Since this application is in condition for allow closed in accordance with the practice unde ion of Claims				nerits is
4)🛛	Claim(s) 1 and 3-14 ie/are pending in the app	plication.			
	4a) Of the above claim(s) 10 and 11 is are wit	thdrawn from	n consideration.		
5)[	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>1, 3-9, 12-14</u> ie/are rejected.				
7)[	Claim(s) is/are objected to.				
8)[	Claim(s) are subject to restriction and/	or election r	equirement.		
Applicat	ion Papers		τ		
9)[	The specification is objected to by the Examin	ier.			
10)	The drawing(s) filed on is/are: a) acce	epted or b)	objected to by the Exa	miner.	
	Applicant may not request that any objection to t				
11)[	The proposed drawing correction filed on	is: a) <u></u> a	pproved b)⊡ disappro	oved by the Examiner.	
	If approved, corrected drawings are required in re	eply to this Of	ffice action.		
12)	The oath or declaration is objected to by the E	xaminer.			
Pri rity	under 35 U.S.C. §§ 119 and 120				
13)	Acknowledgment is made of a claim for foreign	gn priority ur	nder 35 U.S.C. § 119(a	a)-(d) or (f).	
a)	☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority documen	nts have bee	n received.		
	2. Certified copies of the priority documen	nts have bee	n received in Applicat	ion No	
* (	3. Copies of the certified copies of the price application from the International B See the attached detailed Office action for a lis	Bureau (PCT	Rule 17.2(a)).		ige
14) 🔲 /	Acknowledgment is made of a claim for domes	stic priority u	nder 35 U.S.C. § 119(	e) (to a provisional ap	plication).
	The translation of the foreign language practice  Acknowledgment is made of a claim for domes				
Attachmer	·	-	•		
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)			y (PTO-413) Paper No(s). Patent Application (PTO-1	

Art Unit: 1745

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 3-8, 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Edwards et al. (Edwards) (New Rejection with regard to claims 12-14)

Reference is made to the Abstract of Edwards along with Figures 6-8 and 11-12. Also see column 6, lines 4-52 for the disclosure of the claimed subject matter. It is noted that when the battery case 100 as seen in Figure 6 of Edwards is turned on its side, then the plurality of positive and negative electrode plates are arranged in parallel to the long lateral walls of the case.

Applicant's arguments have all been considered but are not deemed persuasive.

Applicant argues that the electrode plates in Edwards are not parallel to the long lateral walls of the battery case. As set forth in the previous paragraph, when the battery case in Edwards is turned on one of its sides, then the plates located therein are parallel to the longest lateral wall of the case. It is well known in the battery art to utilize batteries with their terminals on the side walls thereof.

Applicant further argues that Edwards teaches battery plates that run horizontally so that electrolyte would not allow uniform distribution of electrolyte. As stated previously, with the cell of Edwards placed on one of its sides, the same would result in the battery plates not being horizontal and thus not impeding electrolyte flow.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 1745

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Claims 1 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Edwards in view of Dougherty et al. (Dougherty)

The only claimed feature not taught by the lead acid battery in Edwards is the serpentine separator. The patent to Dougherty discloses in Figure 3 and in column 3, liens 3-61, a serpentine separator used in a lead acid battery. To utilize in the battery of Edwards the separator of Dougherty would have been obvious to one of ordinary skill in this art at the time the invention was made so that manufacturing costs would be reduced by making the lead acid battery in not requiring a cutting step for the separator.

Applicant did not argue the above rejection so that no rebuttal is necessary.

Art Unit: 1745

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John S. Maples whose telephone number is 703-308-1795. The examiner can normally be reached on Monday-Thursday and on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 703-308-2383. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Art Unit: 1745

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

John S. Maples Primary Examiner Art Unit 1745

JSM August 21, 2002